

Recombinant Human SOX2, His-tagged

Cat. No. SOX2-667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SOX2 is fused to an 8 amino acid His-Tag at C-terminus and purified by standard chromatography.
Species	Human
Source	E.coli
ProteinLength	1-200 a.a.
Description	This intronless gene encodes a member of the SRY-related HMG-box (SOX) family of transcription factors involved in the regulation of embryonic development and in the determination of cell fate. The product of this gene is required for stem-cell maintenance in the central nervous system, and also regulates gene expression in the stomach. Mutations in this gene have been associated with optic nerve hypoplasia and with syndromic microphthalmia, a severe form of structural eye malformation. This gene lies within an intron of another gene called SOX2 overlapping transcript (SOX2OT).
Molecular Mass	23.1kDa
Physical Appearance	Sterile filtered colorless solution.
Formulation	The SOX2 solution contains 20mM Tris-HCl pH-8, 2mM DTT, 0.2M NaCl & 40% glycerol.

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Purity	Greater than 90% as determined by SDS-PAGE.
Amino acid sequence	MYNMMETELK PPGPQQTSGG GGGNSTAAAA GGNQKNSPDR VKRPMNAFMV WSRGQRRKMA QENPKMHNSE ISKRLGAEWK LLSETEKRPF IDEAKRLRAL HMKEHPDYKY RPRRKTCTLM KKDKYTLPGG LLAPGGNSMA SGVGVGAGLG AGVNQRMDSY AHMNGWSNGS YSMMQDQLGY PQHPGLNAHG AAQMCPMHRY LEHHHHHH.
Stability	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
OfficialSymbol	SOX2

GENE INFORMATION

Gene Name	SOX2 SRY (sex determining region Y)-box 2 [Homo sapiens]
Synonyms	SOX2; SRY (sex determining region Y)-box 2; ANOP3; MCOPS3; MGC2413; Transcription factor SOX-2; SRY-related HMG-box gene 2; transcription factor SOX2; sex-determining region Y-box 2
Gene ID	6657
mRNA Refseq	NM_003106
Protein Refseq	NP_003097
MIM	184429
UniProt ID	P48431

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Chromosome Location	3q26.3-q27
Pathway	SIDS Susceptibility Pathways; Wnt Signaling Pathway and Pluripotency
Function	DNA binding; chromatin binding; protein binding; sequence-specific DNA binding; transcription regulatory region DNA binding
PDB rendering based on 1gt0.	